2:00 Owner as of 12-12-17 Kathleen Carbello

THIS PERMIT REPLACES PREVIOUS ISSUED 11-12-04 #144759

IREDELL COUNTY HEALTH DEPARTMENT

STATESVILLE 704-878-5305 MOORESVILLE 704-664-5281

IMPROVEMENT PERMIT / AUTHORIZATION TO CONSTRUCT / OPERATION PERMIT / EXISTING SYSTEM INSPECTION

PERMIT# ~~144389~~ 144759 PIN# 4711-33-5327 DATE 8-28-07

OWNER OR APPLICANT SUMMERWOOD HOMES, LLC PHONE: Business 704-507-1245 Home 704-799-8085

ADDRESS 173 WEST MARANTA RD MOORESVILLE NC 28117

LOCATION BUFFALO SHOALS ROAD, TL LAUREL COVE RD, TR HARBOR GATE, TR N. HARBOR WATCH DR, LOT ON LEFT AT

SUBDIVISION HARBOR WATCH BLOCK / SECTION IV LOT 118 LOT AREA 1.302 ACRES SITE CLASS. PS DESIGN FLOW 600 L.T.A.R. 0.30 GPD/FT²

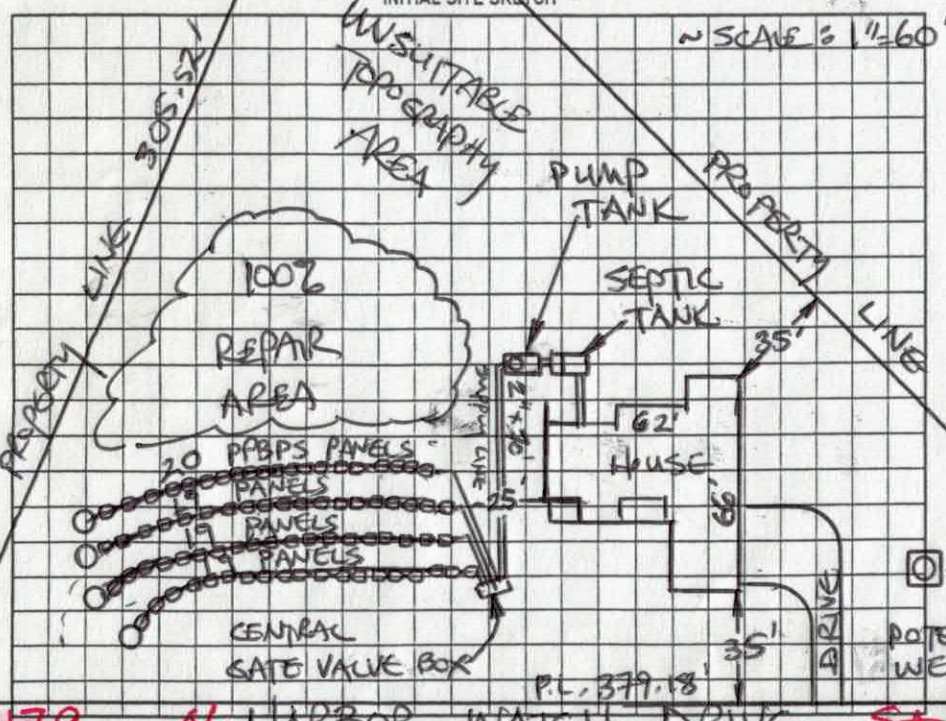
HARBOR RIDGE DRIVE

* Septic Tank: 1500 Gallons; STB 268 Date 12-29-05	☑ New System ☐ Repair ☐ Expansion System Type: I II III IV V VI	☑ House/Mod. Home	No. Bedrooms 5	Water Supply: ☑ Individual ☐ Public ☐ Community WELL
* Pump Tank: 1500 Gallons; PT 24 Date 1-10-8	System Description: 50% REDUCTION LOW-PRESS.	☐ Mobile Home	No. Persons	
Pump Make: Goulds Model WE0512M Serial No. A081M060	Repair System Description: 50% REDUCTION, LOW-PRESSURE	☐ Business	No. Employees	
Nitrification Field: No Fields 1 Square Feet EQ.T 2000 Linear Feet 333	Maintenance Agreement Required: ☑ Yes ☐ No	☐ Other		
No Lines FOUR Trench Width 24" Max Trench Bottom Depth 36" Min Depth 24"	☐ Gravity ☑ Pressure	☐ Slab ☐ Crawl Space	☑ Basement w/plumbing	☐ Basement wo/plumbing

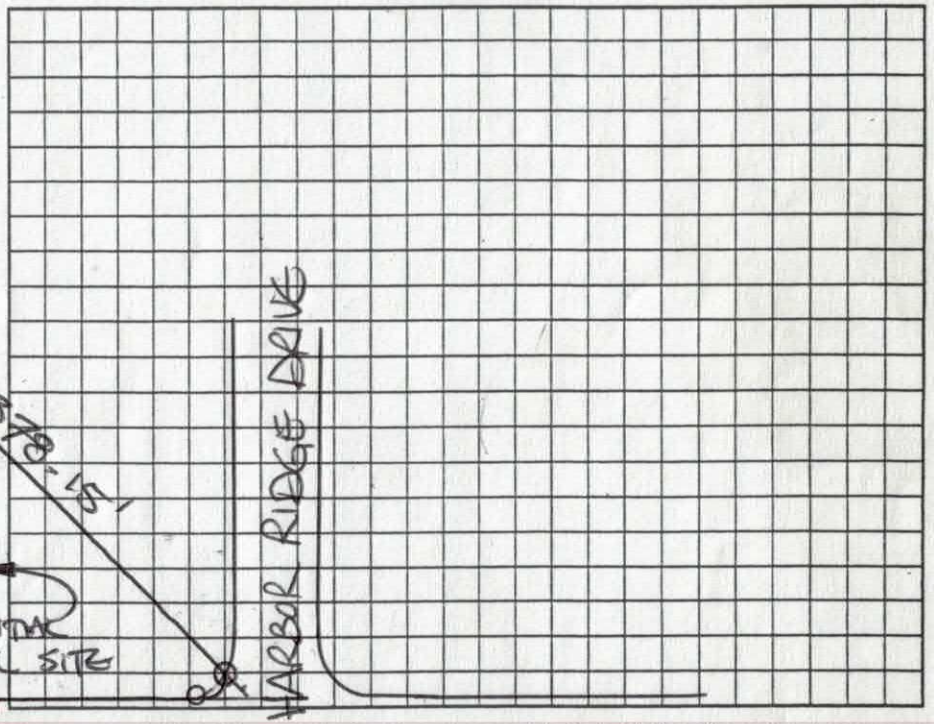
Comments:/Conditions ① INSTALL 50% REDUCTION SYSTEM USING 77 PPBPS PANELS INSTALLED ON CONTOUR AS SHOWN. ② SEE ATTACHED SHEETS FOR PUMP AND LOW PRESSURE DISTRIBUTION REQUIREMENTS

Comments:/Conditions: Brown Filter Septic Filter in Pump (Pump Riser)

INITIAL SITE SKETCH



AS BUILT SKETCH



Permit can be suspended or revoked if any false information is supplied toward securing the permit/any unauthorized changes are made to the site/any unauthorized changes are made in the installation of the system. Improvement Permit with plat valid without expiration ☐ Improvement Permit with site plan valid for sixty months ☑ Authorization to Construct is valid for a period equal to that of Improvement Permit – not to exceed sixty months.

Signed: X [signature] date 8-27-07 Installed by: Steve Jordan

Improvement Permit by: STEVE HEDRICK date 8.28.07 Operation Permit by: [signature] date 3-26-08

Authorization to Construct by: STEVE HEDRICK date 8-28-07 Existing System Inspection by: date

HEALTH DEPT. COPY: WHITE OWNER COPY (FINAL): YELLOW OWNER COPY (INITIAL): PINK

DEPARTMENT OF ENVIRONMENT AND NATURAL RESOURCES
DIVISION OF ENVIRONMENTAL HEALTH
ON-SITE WASTEWATER SECTION

Sheet ___ of ___
PROPERTY ID #: 124387
COUNTY: 4711-33-5327

SOIL/SITE EVALUATION
for ON-SITE WASTEWATER SYSTEM

OWNER: KATHLEEN & JOSEPH CARROLL
ADDRESS: 126 SCRANTON AVE LYNBROOK NY 11563
PROPOSED FACILITY: 5 BR HOUSE
LOCATION OF SITE: PEEBOR WATCH 4 LOT 112
APPLICATION DATE: 10-11-04
DATE EVALUATED: 11-10-04
PROPOSED DESIGN FLOW (.1949): 600
PROPERTY SIZE: 1.13 AC
PROPERTY RECORDED: YES

WATER SUPPLY: ☐ Private ☐ Public ☒ Well ☐ Spring ☐ Other ___
EVALUATION METHOD: ☒ Auger Boring ☐ Pit ☐ Cut
TYPE OF WASTEWATER: ☒ Sewage ☐ Industrial Process ☐ Mixed

PROFILE #	.1940 LANDSCAPE POSITION/ SLOPE %	HORIZON DEPTH (IN.)	SOIL MORPHOLOGY (.1941) .1941 STRUCTURE/ TEXTURE	SOIL MORPHOLOGY (.1941) .1941 CONSISTENCE/ MINERALOGY	OTHER PROFILE FACTORS .1942 SOIL WETNESS/ COLOR	.1943 SOIL DEPTH	.1956 SAPRO CLASS	.1944 RESTR HORIZ	PROFILE CLASS & LTAR
1	8%	0-6	sl wk gr	fr nonplas		>48"			PS .3
		6-48"	cmd sbk	fi sp sesp					
2	12%	0-6"	sl wk gr	fr nonplas		>48"			PS .3
		6-48"	cmd sbk	fi sp sesp					
			sep inclusions	fw <50%					
3	18%	0-6"	sl wk gr	fr nonplas		>48"			PS .3
		6-48"	cmd sbk	fi sp sesp					
			sep inclusions	fw					
			<50%						
4									

DESCRIPTION	INITIAL SYSTEM	REPAIR SYSTEM
Available Space (.1945)	YES	YES
System Type(s)	Pump 25'/1200	LPSD 1.2"
Site LTAR	.3	.3

OTHER FACTORS (.1946): ___
SITE CLASSIFICATION (.1948): PS
EVALUATED BY: L. COOK
OTHER(S) PRESENT: ___

COMMENTS: ___

DIVISION OF ENVIRONMENTAL HEALTH
ON-SITE WASTEWATER SECTION

PROPERTY ID #: _____
COUNTY: _____

SOIL/SITE EVALUATION
for ON-SITE WASTEWATER SYSTEM

OWNER: LK Norman Prop APPLICANT: _____
ADDRESS: _____ APPLICATION DATE: _____ DATE EVALUATED: 4/21/98
PROPOSED FACILITY: _____ PROPOSED DESIGN FLOW (.1949): _____ PROPERTY SIZE: _____
LOCATION OF SITE: Harborwatch 4 Lot 118 PROPERTY RECORDED: _____
WATER SUPPLY: ☒ Private ☐ Public ☐ Well ☐ Spring ☐ Other _____
EVALUATION METHOD: ☐ Auger Boring ☒ Pit ☐ Cut
TYPE OF WASTEWATER: ☒ Sewage ☐ Industrial Process ☐ Mixed

PROFILE #	.1940 LANDSCAPE POSITION/ SLOPE %	HORIZON DEPTH (IN.)	SOIL MORPHOLOGY (.1941) .1941 STRUCTURE/ TEXTURE	.1941 CONSISTENCE/ MINERALOGY	OTHER PROFILE FACTORS .1942 SOIL WETNESS/ COLOR	.1943 SOIL DEPTH	.1956 SAPRO CLASS	.1944 RESTR HORIZ	PROFILE CLASS & LTAR
1	P1 10%	0-10"	Brw SaL GR	FR					PS .3
		10-18"	Rd/Brw C/CL	SBK SS,SP,SE, F-FR					
2	P2 12-15%	0-4"	Brw SaL GR	FR					PS .3
		4-48"	Rd/Brw C/CL	SBK SS,SP,SE, F-FR					
3									
4									

DESCRIPTION	INITIAL SYSTEM	REPAIR SYSTEM
Available Space (.1945)		
System Type(s)		
Site LTAR		

OTHER FACTORS (.1946): _____
SITE CLASSIFICATION (.1948): _____

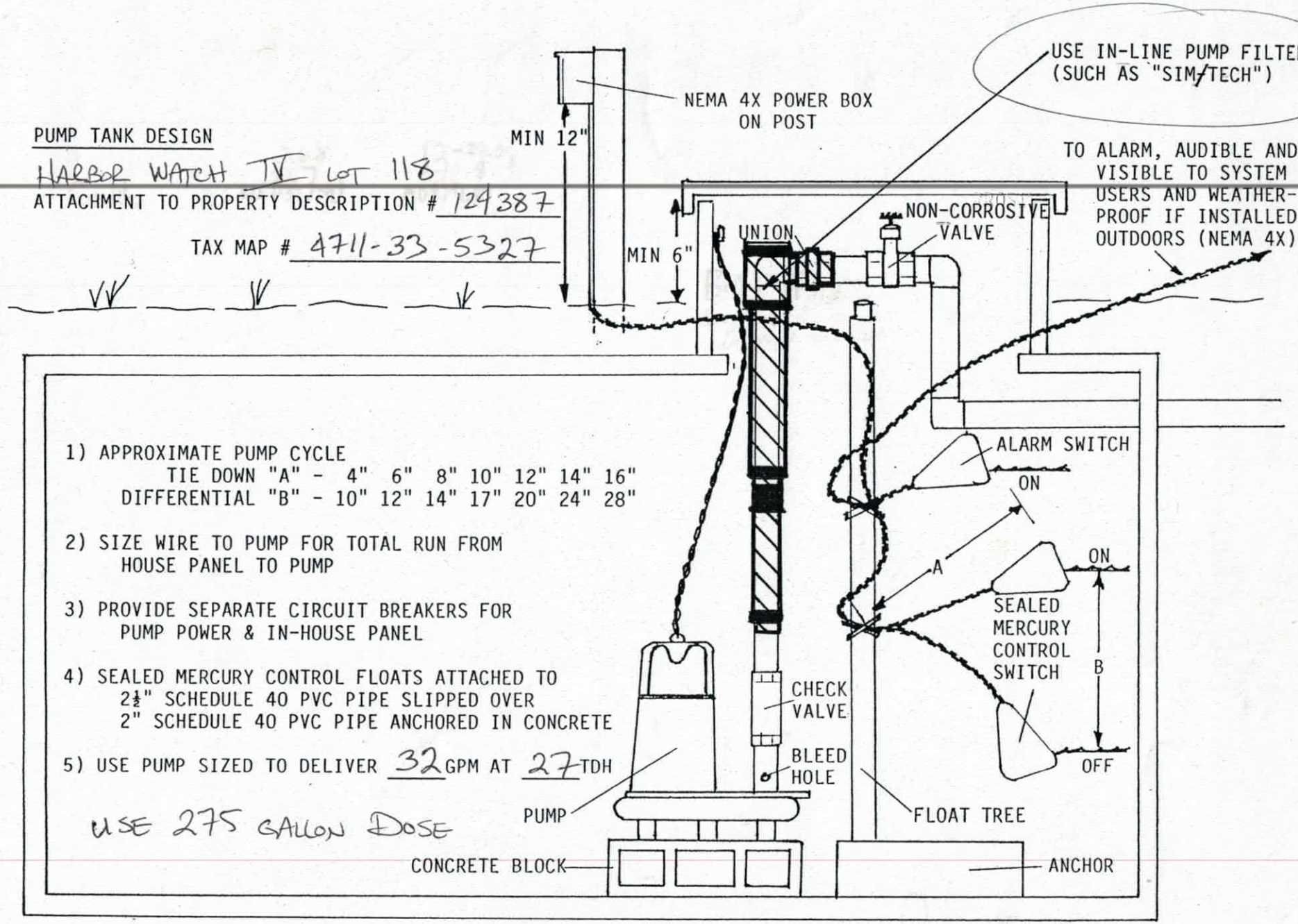
EVALUATED BY: _____
OTHER(S) PRESENT: _____

PUMP TANK DESIGN

HARBOR WATCH IV LOT 118

ATTACHMENT TO PROPERTY DESCRIPTION # 124387

TAX MAP # 4711-33-5327



1) APPROXIMATE PUMP CYCLE
   TIE DOWN "A" - 4" 6" 8" 10" 12" 14" 16"
   DIFFERENTIAL "B" - 10" 12" 14" 17" 20" 24" 28"

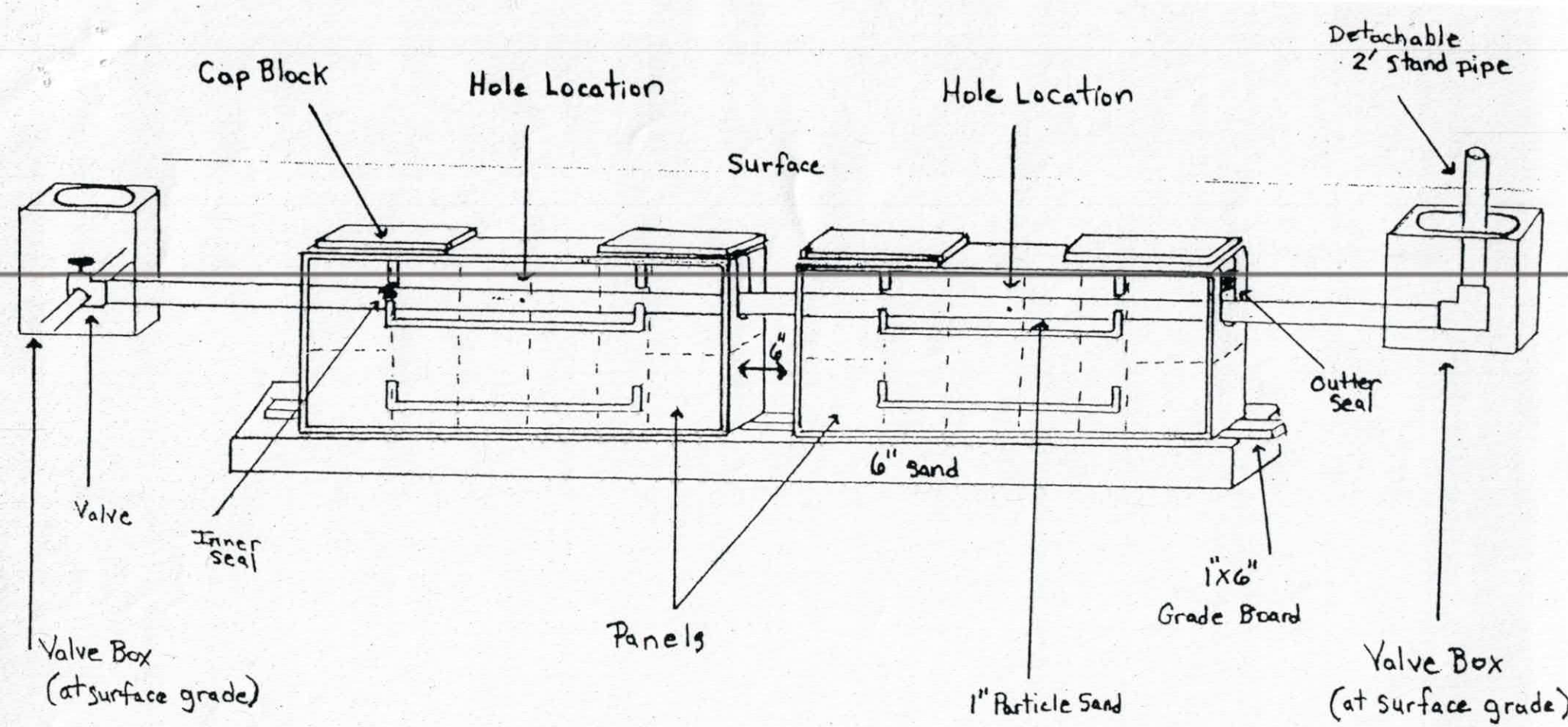
2) SIZE WIRE TO PUMP FOR TOTAL RUN FROM HOUSE PANEL TO PUMP

3) PROVIDE SEPARATE CIRCUIT BREAKERS FOR PUMP POWER & IN-HOUSE PANEL

4) SEALED MERCURY CONTROL FLOATS ATTACHED TO 2½" SCHEDULE 40 PVC PIPE SLIPPED OVER 2" SCHEDULE 40 PVC PIPE ANCHORED IN CONCRETE

5) USE PUMP SIZED TO DELIVER 32 GPM AT 27 TDH

USE 275 GALLON DOSE



Pressure Dosed PPBPS

of panels 77.
Size holes 5/32". 1 hole per panel.
Approximate amount of sand needed ~ 70 TONS.
100 lbs. of partical sand per 8 panels.
Sidewalls raked and limed.
GPM 32.
TDH 27.

Comments

SCOUR TRENCH SIDEWALLS AND APPLY A LIGHT DUSTING OF LIME PRIOR TO INSTALLING SAND & PANELS.

IREDELL COUNTY HEALTH DEPARTMENT

Application For Improvement Permit and/or Authorization To Construct, Existing System Inspection

(THE ABOVE PERMIT DOCUMENTS WILL BECOME INVALID IF INFORMATION PROVIDED ON THIS APPLICATION IS FALSIFIED OR CHANGED, OR IF THE SITE IS ALTERED. THE IMPROVEMENT PERMIT IS VALID FOR EITHER 60 MONTHS OR WITHOUT EXPIRATION DEPENDING UPON DOCUMENTATION SUBMITTED - APPLICATION WITH SITE PLAN 60 MONTHS, APPLICATION WITH COMPLETE, SCALED PLAT WITHOUT EXPIRATION. SEE 15A NCAC 18A .1937(f) FOR DETAILS)

1. APPLICATION FOR: ___ Improvement Permit ___Authorization To Construct ___BOTH ___Existing System Inspection

2. Page 2: *Site Plan Worksheet* Form MUST Accompany This Application
   The following optional attachments may also be submitted: ___ Survey Plat, Scaled no more than 1 Inch = 60 Feet
   Place check ( ) beside whichever is submitted if applicable ___ Custom Site Plan, Scaled no more than 1 Inch = 60 Feet

3. Applicant Information:

Ted Braun	173 West Marenty Rd. Mooresville		704-799-8085
Applicant Name	Mailing Address	Home Phone	Work Phone
Joseph Carollo	126 Scranton Ave Lynbrook NY 11563-2813		
Owner Name	Mailing Address	Home Phone	Work Phone

4. Property Information:

	Harbor Watch	Lot #118
Street Address	Subdivision Name	Section/Phase and Lot Number

Driving Directions: Buffalo Shoals Rd
South on Laurel Cove
Left into Harbor Watch - left on Harbor Watch Dr. - house on left

****

5. RESIDENTIAL Site Development Information: *(Check or Complete ALL that apply)*

(✓) New, Single Family Residence
( ) New, Multi-Family Residence
( ) Expansion of Existing Septic System
( ) Repair To Failing Septic System

Maximum Number of Bedrooms 5B
Maximum Number of Occupants ___
If Expansion, Current Number of Bedrooms ___

( ) Crawl Space Foundation?
( ) Concrete Slab Foundation?
(✓) Basement w/Plumbing?
( ) Basement w/out Plumbing?

IF Non- Residential Site Development:
Type of Business ___
Square Footage of Building ___
Maximum Number of Employees ___
Maximum Number of Seats ___

****

6. Proposed Water Supply:

(✓) New Well ( ) Existing Well ( ) Community Well ( ) City Water ( ) Other Public Water

****

7. Desired Septic System Type: *(You may rank in order of preference, if any)*

( ) Alternative (✓) Conventional ( ) Innovative ( ) Modified Conventional ( ) Other ___ ( ) No Preference

****

8. Please Answer The Following To The Best of Your Ability:

( ) Yes (✓) No Does the site contain any jurisdictional wetlands?
( ) Yes (✓) No Is any non-domestic sewage (i.e. industry) to be generated?
( ) Yes (✓) No Is the site subject to approval by any other public agency?

****

I have read this application and certify that the information provided herein is true, complete, and correct. Authorized county and state officials are granted right of entry to conduct necessary inspections to determine compliance with applicable laws and rules. I understand that I am solely responsible for the proper identification and labeling of all property lines and corners and making the site accessible so that a complete site evaluation can be performed.

9. Signature: Ted Braun — 8-28-07

Property owner or owner's legal representative signature (SIGNATURE REQUIRED) — DATE

IREDELL COUNTY HEATLH DEPARTMENT

PAGE 2: *SITE PLAN WORKSHEET*

SEE THE SAMPLE SITE PLAN BELOW. INCOMPLETE SITE PLANS WILL BE RETURNED TO YOU FOR COMPLETION AND MAY RESULT IN A DELAY IN THE ISSUANCE OF YOUR SEPTIC SYSTEM PERMIT!!!

Place an (X) beside each item as you complete the site plan:

____ Property Line measurements are clearly identified…
____ All proposed structures are indicated…
SHOW: proposed house or business footprint, wells, water lines, patios, pools and decks, and any other item that will occupy space on the site
____ Front and side setbacks from property line…
____ Preferred driveway location and configuration, preferred well location…
____ Area you prefer your septic system to be placed…
____ North arrow, or other sufficient indicator of direction…

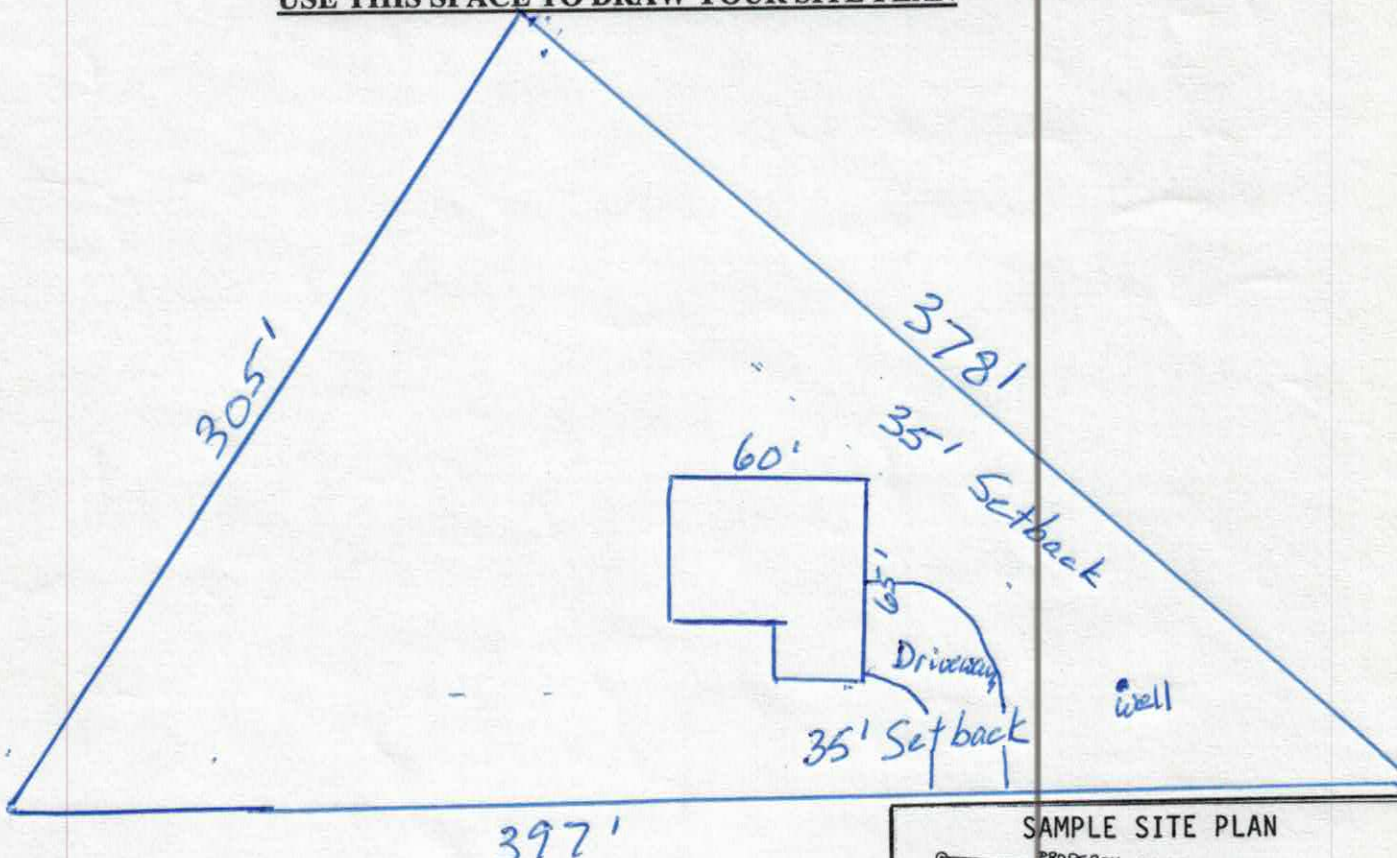
Circle N/A on the following if appropriate:

____ Location of septic systems and wells within 100' of your property… N/A
____ Location of easements and rights of ways on your property… N/A
____ Location of any designated wetlands on the property… N/A

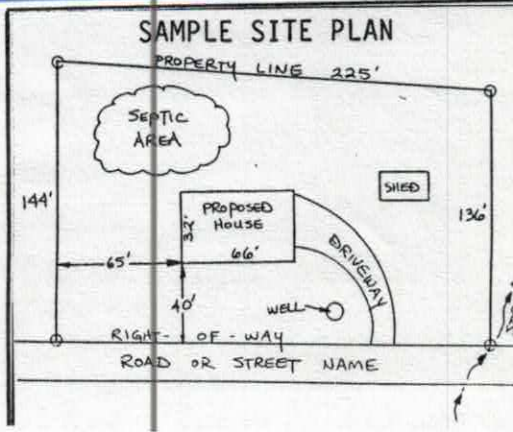
Signature: Ted Bny
Property owner or owner's legal representative signature (SIGNATURE REQUIRED)

8-28-07
DATE

USE THIS SPACE TO DRAW YOUR SITE PLAN

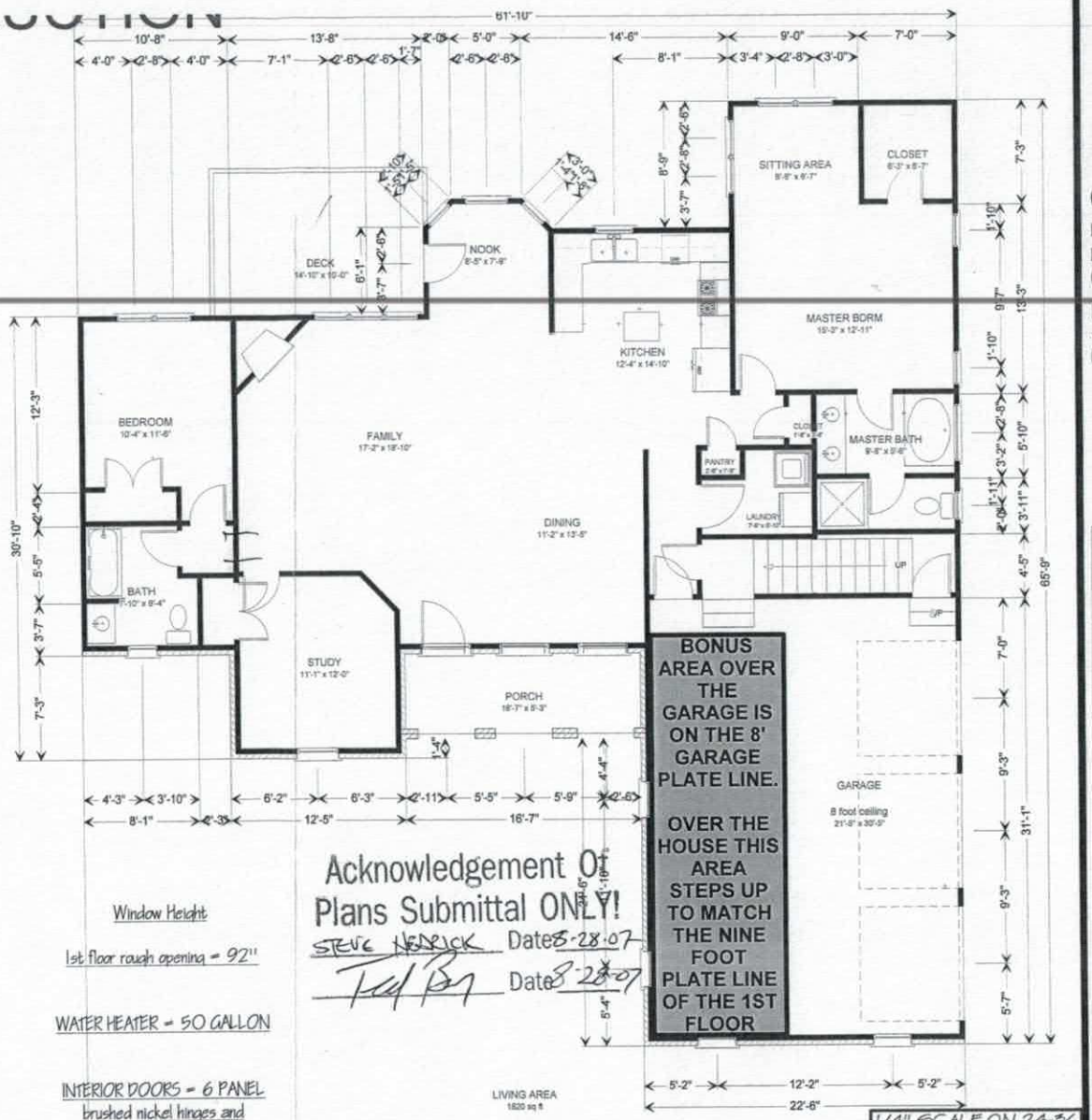


60' Scale



FRAMING PLAN NOTES

1. Wood Framing. All wood framing shall be fabricated and installed per code for wood construction. Unless noted otherwise the following minimum lumber grades shall be used:
a. Structural light framing size 2" to 4" thick x 2" to 4" wide - no. 2 or better.
b. Stud size 2" to 4" thick x 2" to 6" wide- stud grade.
c. Structural joists and planks size 2" to 4" thick x 2" to 4" wide standard or better.
d. Light framing size 2" to 4" thick x 2" to 4" wide standard or better.
2. Interior Stud Walls. All main floor walls to be AS MARKED ON THE PLANS. Interior walls shall be constructed of #2 S.Y.P. minimum 2 x 4 wood studs at 16" on center (OC). Provide single bottom plates and double top plates throughout.
3. Exterior Stud Walls. Walls shall be constructed of #2 S.Y.P. minimum 2 x 4 wood studs at 16" on center (OC) Provide single bottom plates and double top plates throughout. Provide R-11 3 1/2" batt insulation at all locations shown on plans. Exterior sheathing shall be 1/2" osb at corners of building & where required for shear walls. Exterior finish shall be AS SPECIFIED ON EXTERIOR ELEVATIONS
4. Sheathing. OSB sheathing shall be APA structural I, group I size and span rating as shown on the drawings. Nail with 8d nails at 6" on center along panel edges and 12" on center at immediate supports.
5. Pressure Treated Lumber. All wood members exposed to weather or in contact with wood masonry, concrete or soil shall be pressure treated.
6. Nailing Schedule. Except as noted otherwise, all wood framing components shall be fastened as specified in the southern building code, section 1705 and table 1705.1 fastening schedule. Contractor shall provide all fastening devices necessary and suited for each application. Fastenings subject to moisture shall be hot-dip galvanized to ASTM A-153-80. All metal connections and fabrications shall comply with AISC specifications.
7. Headers. Provide 2 - 2 x 10 #2 southern yellow pine with continuous 1/2" plywood flitch plate. Provide double jack supports for openings 6'-0" or greater unless noted otherwise. Provide 2-16d nails at 3" on center at all headers.
8. Beam Supports. Provide multiple stud and/or jack supports from bearing points to slab foundation under all wood headers or beams.
9. Columns. Construct structural wood frame columns with 2 x 4 studs and finish surfaces as specified. Finish interior columns according to finish schedule. Finish exterior columns as shown on elevations.
10. Cross Bridging. Place one row of cross bridging on all spans over 8'-0" and two rows of cross bridging on all spans over 16'-0".
11. Ceiling Joists. Trusses
12. Vaulted and Raised Ceilings. Provide ceiling treatment as shown.
13. Stud and Joist Integrity. Studs and joists shall not be cut to install plumbing and/or wiring without adding metal or wood side members to strengthen member back to original capacity and maintain structural integrity.
14. Joist and Rafter Bearing. Joists and rafters shall be cut to have horizontal contact for the full width of the supporting member.
15. Subfloor. Use 3/4" tongue and groove OSB subfloor to be installed with both nails and approved subfloor adhesive.

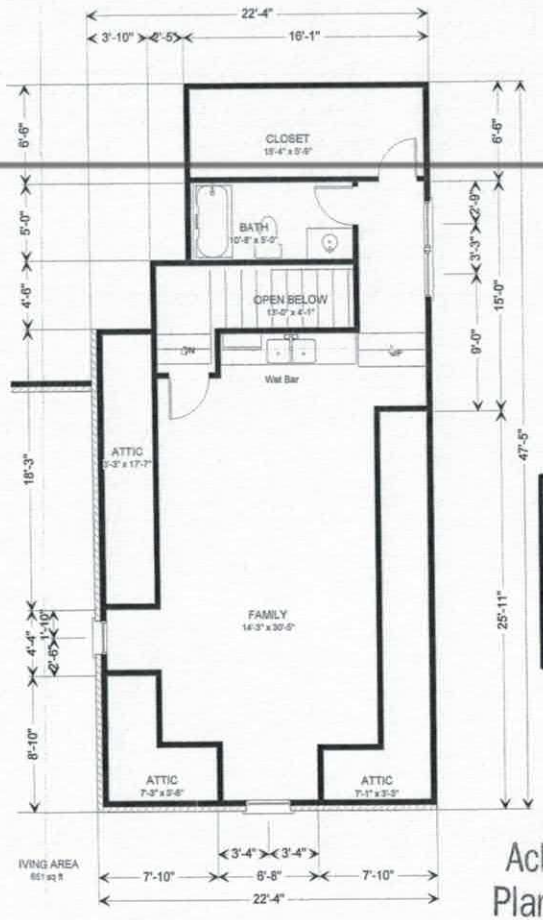


5

CAROLLO
KATHLEEN+JOSEPH
LOT # 118 HARBOR WATCH
IREDELL COUNTY (PIN):4711335327.000

Summerwood Homes, LLC
173 West Marantz Road
Mooresville, NC 28117
704-799-8085
704-799-8868 fax

CUSTOMER Ted Bray
CONTRACTOR
7/01/07
DATE



BONUS AREA OVER THE GARAGE IS ON THE 8' GARAGE PLATE LINE.

OVER THE HOUSE THIS AREA STEPS UP TO MATCH THE NINE FOOT PLATE LINE OF THE 1ST FLOOR

2ND FLOOR FINISHED BONUS ROOM

Acknowledgement Of Plans Submittal ONLY!

STEVE HENDRICK Date 8-28-07

Ted Bm Date 8-28-07

1/4" SCALE ON 24x36
1/8" SCALE ON 11 X17

CAROLLO
KATHLEEN+JOSEPH
LOT # 118 HARBOR WATCH
IREDELL COUNTY (PIN):4711335327.000

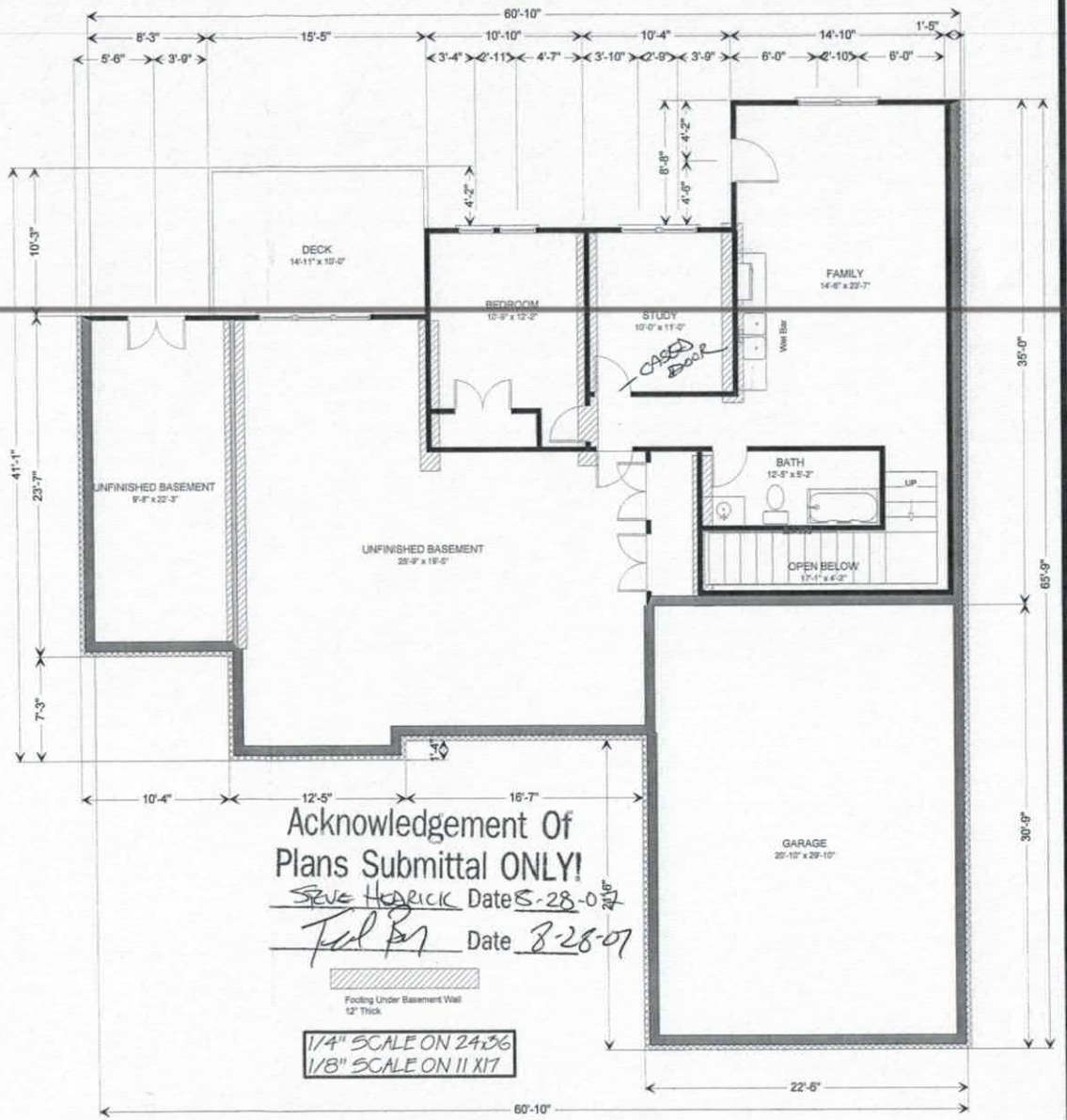
6

SummerWood Homes, LLC
173 West Maranta Road
Mooresville, NC 28117
704-799-8085
704-799-8068 fax

CUSTOMER
Ted Bm
CONTRACTOR
7/01/07
DATE

FOUNDATION PLAN NOTES

1. Soil Bearing. Foundations designs shown here are based on a soil bearing value of 2500 PSF. Foundations and slabs are designed to uniformly bear on well-compacted, well-drained non-expansive soils.
2. Concrete Work. All concrete work shall be in accordance with "the building code requirements for reinforced concrete" ACI 318, latest addition and "specifications for structural concrete for buildings," ACI 301.
3. Finished Grade. Keep finished grade a minimum of 6 1/2" below finished floor elevation. Slope grade away from building to allow water to drain away from building.
4. Concrete Strength. Concrete slabs, patios, and foundations shall be constructed of a minimum 3000 psi after 28 days.
5. Expansion Joint. Provide 1/2" thick by 4" wide bituminous expansion joint material at all surfaces where slabs abut stem-wall foundation. Provide 1 1/2" deep, saw-cut expansion joints, every 15'-20' each way.
6. Monolithic Perimeter Foundation/ slab. 12" below finished grade by 12" wide perimeter foundation paured monolithically. Confirm that footer extends below frost line. Footings shall bear on undisturbed soil where possible.
7. Floor Slab. 4" thick concrete slab. Place slab over termite treated, well compacted granular fill and 6 mil vapor barrier. This slab to be square, level and smooth, troweled with hard steel trowel to a smooth finish. No water to be added during finishing work. For patio or porch slab, slope away from building at 1/4" to 1'-0" as shown on plan.
8. Patio Column Footing. Thicken patio slab at column locations to 12". Width shown on plans.
9. Slab Finish. Provide steel trowel finish for all interior slab areas and garage. Create broom finish texture for all exterior slabs.
10. Stemwall and Poured Concrete Wall Footers. Footers shall be 10" deep by 20" wide minimum. Footers shall bear on undisturbed soil where possible.
11. Foundation walls. Shall be 8" x 8" x 16" CMU, block laid in running bond. Use type "M" mortar and smooth tooled joints. Provide 9 gauge horizontal, ladder type reinforcing steel at 16" on center (OC) vertical, or as required.
12. Concrete Masonry Units (CMU). Shall be in accordance with ASTM C90 or C145, Grade N, Type 1, hollow core load bearing CMU and shall have a minimum net compression strength of 1900 PSI. All concrete masonry work to be in accordance with ACI 531.1.
13. Mortar. Shall be type "M" or "S" in accordance with ASTM c270. Grout minimum 28 day strength shall be 2000 psi with a maximum aggregate of 3/8". Masonry to be laid in running bond with smooth tooled joints.
14. Horizontal wall Reinforcement. Horizontal wall reinforcement shall be 9 gauge, ladder type "dur-o-wall" at 16" on center (OC) vertical, unless noted otherwise.
15. Anchor Bolts. Provide 1/2" anchor bolts in filled cells at 48" on center maximum and at all window locations and each side of door.
16. Vapor Barrier. Provide 6-mil polyethylene vapor barrier in all crawl space areas and under all slabs, between ground and concrete.
17. Crawl Space Access. Provide access door to crawl space. Determine exact location in field.
18. Crawl Space Ventilation. Provide ventilation through stemwall into crawl space every 8' of stemwall perimeter.
19. Garage Slab. Provide positive drainage of garage slab (1/4"=1'-0" slope), and taper lip at garage door.
20. Backfill Against Walls. Do not backfill against foundation, until home is completely framed and roof structure is in place.
21. Termite Treat. Treat foundations under all slabs and crawlspace areas between vapor barrier.



Acknowledgement Of Plans Submittal ONLY!

Steve Hedrick Date 8-28-07

Ted Bay Date 8-28-07

Footing Under Basement Wall 12" Thick

1/4" SCALE ON 24x36
1/8" SCALE ON 11 X17

BASEMENT - PARTIALY FINISHED

7

CAROLLO
KATHLEEN+JOSEPH
LOT # 118 HARBOR WATCH
IREDELL COUNTY (PIN):4711335327.000

SummerWood Homes, LLC
173 West Marantia Road
Mooresville, NC 28117
704-799-8085
704-799-8068 fax

CUSTOMER
Ted Bay
CONTRACTOR
7/01/07
DATE

Iredell County
ZONING PERMIT

227 South Center St. PO Box 788 Statesville, NC 28687 Phone 704-878-3118

Call Sanitarian between 8 a.m. & 9 a.m. Statesville 704-878-5305 Mooresville 704-664-5281

Permit #:	144759ZO	Subdivision:	Harbor Watch
Proposed Use:	Single Family	Township:	1500 Fallstown
Location of Property:	Harbor Watch Rd. Statesville NC 28677		
Parcel #:	4711335327.000	Zoning:	RA
Lot #:	118 Size: 1.3	Flood Plain:	No Watershed: WSIV-CA
Applicant:	Summerwood Homes, LLC	Owner:	Kathleen & Joseph Carollo
Address:	173 West Maranta Road Mooresville NC 28117	Address:	126 SCRANTON AVE Lynbrook, NY 11563
Phone:	704-799-8085	Phone:	
Property Recorded:	Yes Site Plan Reviewed:	Community Water:	No Community Sewer:

If permitted the following minimum requirements must be met, unless Health Department requires more land area, or other qualifications are indicated in the comments.

Min. Lot Area:	25000	Min. Front Yard:	35 ft	Min. Left Side Yard:	15 ft
Min. Lot Width:	100	Min: Rear Yard:	35 ft	Min: Right Side Yard:	15 ft

Min. Number Parking Spaces: Max. Built Upon Area:

Comments:

Directions:

Exit 42 21 north left on Old Mt. left on Buffalo, left on Laurel cove, right on Harbor Watch

FEES

Zoning Permit/Inspection Fee	☑	$45.00
Site Plan Review Fee	☐	$0.00
Environmental Health New System	☑	$400.00
Environmental Health Existing System	☐	$0.00
Total Fees:		$445.00

I certify that all statements made in this application and any attached documents are true, complete, and correct to the best of my knowledge and belief and are made in good faith. I understand that false information may be grounds for rejection of this application. Authorized Health Department and Planning & Enforcement Representatives are granted right of entry to make evaluations or inspections and to release information upon public request.

Applicant:_____ Date: _____

A non-refundable fee of $45.00 is charged on all permit applications.

STEPHANIE WHITLOCK Printed: 8/13/2007